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Product Information

MemDX™ Antibody Discovery - Human TIMP1 (24-207) Membrane Protein, Partial, -His tag

Cat. No.: **MP0491F**
This product is for research use only and is not intended for diagnostic use.

This membrane protein is Human TIMP1 (24-207). It has been tested in SDS-PAGE. We provide this protein to facilitate your membrane protein antibody discovery and development.

Product Specifications

Host Species
Human

Target Protein
TIMP1

Protein Length
ECD

Molecular Weight
The protein has a calculated MW of 21.5 kDa. The protein migrates as 30-34 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Sequence
AA Cys 24 - Ala 207 (Accession # P01033-1).

Product Description

Application
SDS-PAGE

Expression Systems
HEK293

Tag
His tag at the C-terminus

Protein Format
Soluble

Form
LYOPH

Reconstitution
Please see Certificate of Analysis for specific instructions.

Endotoxin

<1.0 EU/μg by the LAL method

Purity

>95% as determined by reduced SDS-PAGE.

Buffer

Lyophilized from 0.22 μm filtered solution in PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.

Storage

Stored at lyophilized form at -20°C or lower. Avoid repeated freeze-thaw cycles.
The antigen can be stable for 12 months in lyophilized form after storage at -20°C to -80°C, 3 months under sterile coditions after reconstitution after storage at -80°C.

Target

Target Protein

TIMP1

Full Name

TIMP metallopeptidase inhibitor 1

Introduction

This gene belongs to the TIMP gene family. The proteins encoded by this gene family are natural inhibitors of the matrix metalloproteinases (MMPs), a group of peptidases involved in degradation of the extracellular matrix. In addition to its inhibitory role against most of the known MMPs, the encoded protein is able to promote cell proliferation in a wide range of cell types, and may also have an anti-apoptotic function. Transcription of this gene is highly inducible in response to many cytokines and hormones. In addition, the expression from some but not all inactive X chromosomes suggests that this gene inactivation is polymorphic in human females. This gene is located within intron 6 of the synapsin I gene and is transcribed in the opposite direction.

Alternative Names

EPA; EPO; HCI; CLGI; TIMP; TIMP-1; metalloproteinase inhibitor 1; collagenase inhibitor; epididymis secretory sperm binding protein; erythroid potentiating activity; fibroblast collagenase inhibitor; tissue inhibitor of metalloproteinases 1

Gene ID

7076

UniProt ID

P01033